

Dongshi Zhang

List of Publications by Year in descending order

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49
papers

3,539
citations

159585

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223800

46
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50
all docs

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docs citations

50
times ranked

3239
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Irregular LIPSS produced on metals by single linearly polarized femtosecond laser. International Journal of Extreme Manufacturing, 2022, 4, 015102. | 12.7 | 50 |
| 2 | Femtosecond Laser Generated Hierarchical Macropore/LIPSS Metasurfaces and Their Ultrabroadband Absorbance, Photothermal Properties, and Thermal-Induced Reflectance Oscillation. ACS Applied Electronic Materials, 2022, 4, 990-1001. | 4.3 | 12 |
| 3 | Liquid vortexes and flows induced by femtosecond laser ablation in liquid governing formation of circular and crisscross LIPSS. Opto-Electronic Advances, 2022, 5, 210066-210066. | 13.3 | 23 |
| 4 | Liquid vortexes and flows induced by femtosecond laser ablation in liquid governing formation of circular and crisscross LIPSS. Opto-Electronic Advances, 2022, 5, 210066-210066. | 13.3 | 3 |
| 5 | Hierarchical WO ₃ Ultrabroadband Absorbers and Photothermal Converters Grown from Femtosecond Laser-Induced Periodic Surface Structures. ACS Applied Materials & Interfaces, 2022, 14, 24046-24058. | 8.0 | 5 |
| 6 | Diverse nanomaterials synthesized by laser ablation of pure metals in liquids. Science China: Physics, Mechanics and Astronomy, 2022, 65, . | 5.1 | 8 |
| 7 | Laser ablation in liquids for nanomaterial synthesis: diversities of targets and liquids. JPhys Photonics, 2021, 3, 042002. | 4.6 | 50 |
| 8 | Femtosecond laser induced simultaneous functional nanomaterial synthesis, in situ deposition and hierarchical LIPSS nanostructuring for tunable antireflectance and iridescence applications. Journal of Materials Science and Technology, 2021, 89, 179-185. | 10.7 | 27 |
| 9 | Laser Ablation in Liquids for Nanomaterial Synthesis and Applications. , 2021, , 1-35. | | 1 |
| 10 | Laser Ablation in Liquids for Nanomaterial Synthesis and Applications. , 2021, , 1481-1515. | | 3 |
| 11 | Laser-synthesized graphite carbon encased gold nanoparticles with specific reaction channels for efficient oxygen reduction. Journal of Colloid and Interface Science, 2020, 563, 74-80. | 9.4 | 10 |
| 12 | Multiscale Hierarchical Micro/Nanostructures Created by Femtosecond Laser Ablation in Liquids for Polarization-Dependent Broadband Antireflection. Nanomaterials, 2020, 10, 1573. | 4.1 | 19 |
| 13 | Carbonized Hybrid Micro/Nanostructured Metasurfaces Produced by Femtosecond Laser Ablation in Organic Solvents for Biomimetic Antireflective Surfaces. ACS Applied Nano Materials, 2020, 3, 1855-1871. | 5.0 | 43 |
| 14 | Underwater persistent bubble-assisted femtosecond laser ablation for hierarchical micro/nanostructuring. International Journal of Extreme Manufacturing, 2020, 2, 015001. | 12.7 | 54 |
| 15 | Multiscale Hierarchical Micro/Nanostructures Created by Femtosecond Laser Ablation in Liquids for Polarization-Dependent Broadband Antireflection. Nanomaterials, 2020, 10, 1573. | 4.1 | 1 |
| 16 | Hierarchical anti-reflective laser-induced periodic surface structures (LIPSSs) on amorphous Si films for sensing applications. Nanoscale, 2020, 12, 13431-13441. | 5.6 | 67 |
| 17 | Femtosecond laser shockwave peening ablation in liquids for hierarchical micro/nanostructuring of brittle silicon and its biological application. International Journal of Extreme Manufacturing, 2020, 2, 045001. | 12.7 | 31 |
| 18 | Carbon-Encapsulated Metal/Metal Carbide/Metal Oxide Core-Shell Nanostructures Generated by Laser Ablation of Metals in Organic Solvents. ACS Applied Nano Materials, 2019, 2, 28-39. | 5.0 | 86 |

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|----|---|------|-----------|
| 19 | Hierarchical microstructures with high spatial frequency laser induced periodic surface structures possessing different orientations created by femtosecond laser ablation of silicon in liquids. <i>Opto-Electronic Advances</i> , 2019, 2, 19000201-19000218. | 13.3 | 82 |
| 20 | Two Birds with One Stone: Spontaneous Size Separation and Growth Inhibition of Femtosecond Laser-Generated Surfactant-Free Metallic Nanoparticles via ex Situ SU-8 Functionalization. <i>ACS Omega</i> , 2018, 3, 10953-10966. | 3.5 | 8 |
| 21 | Spontaneous Shape Alteration and Size Separation of Surfactant-Free Silver Particles Synthesized by Laser Ablation in Acetone during Long-Period Storage. <i>Nanomaterials</i> , 2018, 8, 529. | 4.1 | 28 |
| 22 | Magnetic Fe@FeOx, Fe@C and γ -Fe ₂ O ₃ Single-Crystal Nanoblends Synthesized by Femtosecond Laser Ablation of Fe in Acetone. <i>Nanomaterials</i> , 2018, 8, 631. | 4.1 | 33 |
| 23 | Formation Mechanism of Laser-Synthesized Iron-Manganese Alloy Nanoparticles, Manganese Oxide Nanosheets and Nanofibers. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600225. | 2.3 | 36 |
| 24 | Germanium Sub-Microspheres Synthesized by Picosecond Pulsed Laser Melting in Liquids: Educt Size Effects. <i>Scientific Reports</i> , 2017, 7, 40355. | 3.3 | 39 |
| 25 | Laser Synthesis and Processing of Colloids: Fundamentals and Applications. <i>Chemical Reviews</i> , 2017, 117, 3990-4103. | 47.7 | 965 |
| 26 | Recent Advances in Surfactant-Free, Surface-Charged, and Defect-Rich Catalysts Developed by Laser Ablation and Processing in Liquids. <i>ChemNanoMat</i> , 2017, 3, 512-533. | 2.8 | 103 |
| 27 | Perspective on how laser-ablated particles grow in liquids. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1. | 5.1 | 57 |
| 28 | Perspective of laser-prototyping nanoparticle-polymer composites. <i>Applied Surface Science</i> , 2017, 392, 991-1003. | 6.1 | 66 |
| 29 | Debris-free rear-side picosecond laser ablation of thin germanium wafers in water with ethanol. <i>Applied Surface Science</i> , 2016, 367, 222-230. | 6.1 | 69 |
| 30 | Layered Seed-Growth of AgGe Football-like Microspheres via Precursor-Free Picosecond Laser Synthesis in Water. <i>Scientific Reports</i> , 2015, 5, 13661. | 3.3 | 41 |
| 31 | Rapid Nanoparticle-Polymer Composites Prototyping by Laser Ablation in Liquids. , 2015, , 2131-2141. | | 8 |
| 32 | Superhydrophobic PDMS surfaces with three-dimensional (3D) pattern-dependent controllable adhesion. <i>Applied Surface Science</i> , 2014, 288, 579-583. | 6.1 | 76 |
| 33 | Bioinspired underwater superoleophobic surface with ultralow oil-adhesion achieved by femtosecond laser microfabrication. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8790-8795. | 10.3 | 160 |
| 34 | A bioinspired planar superhydrophobic microboat. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 035006. | 2.6 | 26 |
| 35 | Bioinspired superhydrophobic surfaces with directional Adhesion. <i>RSC Advances</i> , 2014, 4, 8138. | 3.6 | 44 |
| 36 | A simple way to achieve superhydrophobicity, controllable water adhesion, anisotropic sliding, and anisotropic wetting based on femtosecond-laser-induced line-patterned surfaces. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5499-5507. | 10.3 | 172 |

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|----|---|-----|-----------|
| 37 | Bioinspired Wetting Surface via Laser Microfabrication. ACS Applied Materials & Interfaces, 2013, 5, 6777-6792. | 8.0 | 194 |
| 38 | Rapid Fabrication of Large-Area Concave Microlens Arrays on PDMS by a Femtosecond Laser. ACS Applied Materials & Interfaces, 2013, 5, 9382-9385. | 8.0 | 122 |
| 39 | Stable superhydrophobic surface with hierarchical mesh-porous structure fabricated by a femtosecond laser. Applied Physics A: Materials Science and Processing, 2013, 111, 243-249. | 2.3 | 60 |
| 40 | Femtosecond Laser Weaving Superhydrophobic Patterned PDMS Surfaces with Tunable Adhesion. Journal of Physical Chemistry C, 2013, 117, 24907-24912. | 3.1 | 143 |
| 41 | Controllable Adhesive Superhydrophobic Surfaces Based on PDMS Microwell Arrays. Langmuir, 2013, 29, 3274-3279. | 3.5 | 117 |
| 42 | A Simple Way To Achieve Pattern-Dependent Tunable Adhesion in Superhydrophobic Surfaces by a Femtosecond Laser. ACS Applied Materials & Interfaces, 2012, 4, 4905-4912. | 8.0 | 141 |
| 43 | Mutual wetting transition between isotropic and anisotropic on directional structures fabricated by femtosecond laser. Soft Matter, 2011, 7, 8337. | 2.7 | 49 |
| 44 | Anisotropic Wetting on Microstrips Surface Fabricated by Femtosecond Laser. Langmuir, 2011, 27, 359-365. | 3.5 | 101 |
| 45 | Femtosecond laser directly writing microholes in Bi(Nb _{0.998} V _{0.002})O ₄ ceramic and multi-photon induced large scale nanometer wires array. Journal of Materials Science: Materials in Electronics, 2011, 22, 1-5. | 2.2 | 7 |
| 46 | Research on the technology of femtosecond laser micromachining based on image edge tracing. Science Bulletin, 2010, 55, 877-881. | 1.7 | 3 |
| 47 | Wetting characteristics on hierarchical structures patterned by a femtosecond laser. Journal of Micromechanics and Microengineering, 2010, 20, 075029. | 2.6 | 42 |
| 48 | Photoetching of spherical microlenses on glasses using a femtosecond laser. Optics Communications, 2009, 282, 4119-4123. | 2.1 | 53 |
| 49 | Fabrication of Periodic Microholes in BiNbO ₄ by Femtosecond Laser Pulses for the Applications of 2D Photonic Crystal Waveguide. Ferroelectrics, 2009, 387, 130-136. | 0.6 | 1 |